

Comrex

MODEL 217

Wireless Microphone System



The **COMREX MODEL 217 WIRELESS MICROPHONE SYSTEM** is designed for use in studios and for medium range outdoor applications wherever there is need for mobility and for freedom from the hazard and nuisance of trailing microphone cords.

The Model 217 System consists of the **A 207 TRANSMITTER**, which is carried on the person, and the **B 217 RECEIVER**. Both the transmitter and receiver are crystal controlled, which eliminates the need for tuning.

The **A 207** is a 100 milliwatt, F M transmitter of advanced design. It features a patented crystal controlled circuit and silicon R.F. transistors. Any low impedance dynamic microphone may be used with the **A 207**.

The **B 217** is a transistorized, F M receiver designed for communications and telemetry applications as well as for wireless microphone usage. It may be operated portably on self contained batteries or from A.C. lines using the **D 217** Power Supply. It features a special crystal filter which is designed to provide extremely high attenuation of adjacent channel interference.

The **COMREX MODEL 207 TRANSMITTER** is type accepted by the FCC for use in the Business Radio Service.

For Canadian users the **COMREX MODEL 227** has D.O.T. approval.

COMREX FEATURES

- Crystal controlled Transmitter and Receiver
- No tuning controls
- Extremely rugged construction
- Standard input, output impedances and levels
- May be used with any low impedance, dynamic microphone
- Long battery life, simple battery change
- Transmitter and receiver use the same batteries
- Receiver may be A.C. or battery operated

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CORPORATION

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B-217 RECEIVER SPECIFICATIONS

1. **Frequency Range** 25 mc to 54 mc
2. **Band Width:** 32 kc at 6db points
64 kc at 60 db points
3. **De-emphasis:** 100 micro-seconds
4. **Sensitivity:** 1 microvolt for 20 db
quieting
5. **Input Impedance:** 50 ohms
6. **Spurious:** Greater than 80 db
7. **Output:** Headphone 2.8 v R.M.S.
across 2000 ohms
Microphone -20 dbm or
-50 db @ 150 ohms
balanced selectable by
means of rear panel
switch
8. **Power Requirements:** Internal Batteries
2—TR—165R mercury
cells external
12 V.D.C. or D-217
power supply which oper-
ates for 115 V 60 cps
9. **Size:** 8½" x 7" x 3¼"
10. **Controls:** Gain on/off, output level
11. **Antenna:** Base loaded antenna
supplied

TRANSMITTER SPECIFICATIONS

1. **Frequency Range:** 25-50 mc
2. **Power Output:** Basic Transmitter 100mw
3. **Frequency Deviation:** ± 10 kc
4. **Frequency Stability:** $\pm 0.005\%$
5. **Power Input:** Basic Transmitter 175 mw
Booster Amplifier..1 watt
6. **Battery Drain:** Basic Transmitter
2-Mallory TR165R
or equivalent. I = 30 ma
Booster Amplifier
2-Mallory TR-136R
or equivalent. I = 70 ma
7. **Preemphasis:** 100 Microseconds
8. **Field Tunability:** May be tuned in the field
over the 26.11-26.480
band by simply changing
crystal and peaking osc.,
mult. and RF amp. tun-
ing capacitors. Retunable
over comparable ranges
at other portions of the
25-50mc band.
9. **Microphone Input
Level:** -61 dbm
10. **Dimensions:** Basic Transmitter
3½" x 4½" x 1"
Booster Amplifier
3½" x 5½" x 1"

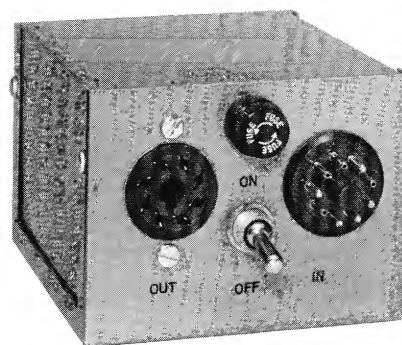
Specifications subject to change without notice.



C207

(Optional for broadcast use only—26.10 - 26.48 m c)

The booster amplifier, shown here with the A207 Transmitter, is an accessory to the basic transmitter. When driven by the transmitter it increases the power input to a full watt, the maximum permitted by the F.C.C. The booster may be used for long range applications where additional power is necessary.



D 217 (Optional)

The D217 Power Supply may be used with the B217 Receiver for A.C. or external 12v operation.